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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/743,474	12/23/2003	Masahiko Matsukawa	21581-00312-US	8031	
30678 75	90 06/13/2006		EXAM	EXAMINER	
CONNOLLY BOVE LODGE & HUTZ LLP			ZHENG,	ZHENG, LOIS L	
SUITE 800 1990 M STREE	2 800 M STREET NW		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20036-3425			1742		
			DATE MAILED: 06/13/2006	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/743,474	MATSUKAWA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Lois Zheng	1742			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period vortice of the period of the	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be tivill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDON	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>23 Description</u>	<u>ecember 2003</u> .				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of Claims					
4) ☐ Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) 4,5 and 7-12 is/are w 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3 and 6 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	ithdrawn from consideration.				
Application Papers	. orocaen roquironicinic				
· _	_				
9) ☐ The specification is objected to by the Examine10) ☐ The drawing(s) filed on is/are: a) ☐ according		Fxaminer			
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct		• •			
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	e Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5/3/04, 3/23/04.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:				

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DETAILED ACTION

Status of Claims

Claims 3-4 are amended in view of the preliminary amendment filed 23
 December 2003. New claims 6-12 are added in view of the preliminary amendment.
 Therefore, claims 1-12 are currently under examination.

Election/Restrictions

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-3 and 6, drawn to a composition, classified in class 148, subclass 243.
 - II. Claims 4-5 and 7-12, drawn to a product, classified in class 428, subclass 432.
- 3. Inventions II and I are related as product and composition used to make the product. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the composition as claimed can be used to form materially different product or (2) the product as claimed can be formed by using a materially different composition. In the instant case the coating composition as claimed can be used to form a surface treated non-metallic product. The surface-treated metal product as claimed can also be produced by using a materially different coating composition such as a phosphate containing coating composition.
- 4. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

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5. During a telephone conversation with Burton A Amernick on 7 June 2006 a provisional election was made with traverse to prosecute the invention of Group I, claims 1-3 and 6. Affirmation of this election must be made by applicant in replying to this Office action. Claims 4-5 and 7-12 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claims 1 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Seidel et al. US 5,976,272(Seidel) in view of Tomlinson US 5,441,580 (Tomlinson).

Seidel teaches a conversion coating composition comprising 2-25g/l of zinc 2-25g/l of manganese(abstract), 0.1-15g/l of cobalt, calcium and/or magnesium, 3-200mg/l of copper, 0.01-5g/l of complex fluoride of silicon, titanium or zirconium(col. 3 lines 3-20) and accelerators such as 2-5g/l of hydroxylamine, nitrobenzene sulfonic acid and chlorate, 0.2-1g/l of nitrite or 20-100ppm of hydrogen peroxide(col. 5 lines 12-15).

However, Seidel teaches not teach the presence of Group III metal ions such as Al, Ga or In.

Tomlinson teaches a conversion coating composition comprising zirconium, fluoride(col. 2 lines 43-48). Tomlinson further teaches the addition of aluminum in the amount of 10-1000ppm(col. 4 lines 20-25).

Therefore, it would have been obvious to one of ordinary skill in the art to have incorporated the 10-1000ppm of aluminum as taught by Tomlinson into the coating composition of Seidel in order to increase the rate of deposition of insoluble salts in the coating as taught by Tomlinson(col. 4 lines 20-25).

Regarding claims 1 and 3, the component concentrations in the coating solution of Seidel in view of Tomlinson overlap the claimed component concentrations as recited in instant claims 1 and 3. Therefore, a prima facie case of obviousness exists. See MPEP 2144.05. The selection of the claimed component concentrations from the coating solution component concentrations of Seidel in view of Tomlinson would have been obvious to one of ordinary skill in the art since Seidel in view of Tomlinson teach the same utilities in their disclosed coating solution component concentrations.

8. Claims 2 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Seidel in view of Tomlinson, and further in view of Cuyler et al US 2002/0007872 A1 (Cuyler).

The teachings of Seidel in view of Tomlinson are discussed in paragraph 7 above. However, Seidel in view of Tomlinson do not explicitly teach the claimed siliconcontaining compounds as recited in instant claim 2.

Cuyler teaches a conversion coating composition comprising silica(page 5 paragraph [0033]).

Regarding claim 2, it would have been obvious to one of ordinary skill in the art to have incorporated the silica as taught by Cuyler into the coating composition of Seidel in

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view of Tomlinson in order to promote adhesion as taught by Cuyler(page 5, paragraph [0033]).

Regarding claim 6, the instant claim is rejected for the same reasons as stated in the rejection of instant claim 3 above.

Double Patenting

9. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

10. Claims 1-3 and 6 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-6 of copending Application No. 10/743,387 as seen in US Patent Application Publication 2004/0163736 A1(US'736). Although the conflicting claims are not identical, they are not patentably distinct from each other because US'736 teaches a coating composition that is substantially the same as the claimed coating composition(i.e. zirconium, titanium,

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fluorine and silane couling agent, zinc, magnesium, calcium, aluminum, gallium, indium

and copper).

This is a provisional obviousness-type double patenting rejection because the

conflicting claims have not in fact been patented.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Lois Zheng whose telephone number is (571) 272-1248.

The examiner can normally be reached on 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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